## **AMENDMENTS TO THE CLAIMS**

The listing of claims will replace all prior versions, and listings, of claims in the application:

## LISTING OF CLAIMS

Claim 1-10 (Canceled)

Claim 11 (Currently Amended). A radio reception apparatus, comprising:

a correlation calculator that performs a correlation calculation, having a calculation length, on a reception signal with a calculation length using a known signal;

a delay detector that performs a delay detection using a signal obtained from the correlation calculation;

a detector that detects a synchronization timing based on the delay detection; and

a reception situation estimator that estimates a reception situation at least one of a signal to noise ratio, a reception power and an Eb/No from the reception signal; and

a calculation length controller that controls the calculation length according to the reception situation at least one of the signal to noise ratio, the reception power and the Eb/No estimated by the reception situation estimator.

Claim 12 (Currently Amended). The radio reception apparatus according to claim 11, wherein the calculation length controller increases the calculation length when the reception situation at least one of the signal to noise ratio, the reception power and the Eb/No is bad, and decreases the calculation length when the reception situation at least one of the signal to noise ratio, the reception power and the Eb/No is good.

Claim 13 (Previously Presented). The radio reception apparatus according to claim 11,

wherein the calculation length controller controls the calculation length according to a number of times the synchronization timing is detected.

Claims 14-18 (Canceled).

Claim 19 (Currently Amended). A synchronization timing detection method, comprising: performing a correlation calculation, having a calculation length, on a reception signal with a calculation length using a known signal;

detecting a delay using a signal obtained as a result of the correlation calculation; detecting a synchronization timing from the detected delay;

estimating a reception situation at least one of a signal to noise ratio, a reception power and an Eb/No from the reception signal; and

controlling the calculation length according to the estimated reception situation at least one of the signal to noise ratio, the reception power and the Eb/No.

Claims 20-21 (Canceled).

Claim 22 (Currently Amended). The synchronization timing detection method according to claim 19, wherein controlling the calculation length comprises increasing the calculation length when the reception situation at least one of the signal to noise ratio, the reception power and the Eb/No is bad and decreasing the calculation length when the reception situation at least one of the signal to noise ratio, the reception power and the Eb/No is good.

Claim 23 (Currently Amended). The synchronization timing detection method according to claim 19, further comprising further controlling the calculation length according to a number of times the synchronization timing is detected.